

UNITED STATES DEPARTMENT OF COMMERCE Patent and Trademark Offic

Address: COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20231

					MK	
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR		AT	ATTORNEY DOCKET NO.	
09/499,207	02/07/00	GUIXA ARDERIU		J 21	36/0 G 684	
		IM62/1005		EXAMINER		
Darby & Darby PC 805 Third Avenue		THOWALTOON	·	IP,S		
				ART UNIT	PAPER NUMBER	
New York NY	[0022			1742	6	
				DATE MAILED: 1	.0/05/00	

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

•	Application No.	Applicant(s)					
Office Action Summary							
——————————————————————————————————————	Examiner	Group Art Unit					
-The MAILING DATE of this communication appears	on the cover sheet	beneath the correspondence address					
Period for Reply	5						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO OF THIS COMMUNICATION.	EXPIRE	MONTH(S) FROM THE MAILING DATE					
 Extensions of time may be available under the provisions of 37 CFR 1.1 from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, such period shall, by default, experiod to reply within the set or extended period for reply will, by statute 	y within the statutory minion of the statutory	mum of thirty (30) days will be considered timely. om the mailing date of this communication					
Status							
□ Responsive to communication(s) filed on 2/2/00	3 8/14/00:	8/22/00					
☐ This action is FINAL.							
Since this application is in condition for allowance except for accordance with the practice under Ex parte Quayle, 1935	r formal matters, pro s C.D. 1 1; 453 O.G. 21	secution as to the merits is closed in 3.					
Disposition of Claims							
(Claim(s) 5 -/ 4	is/are pending in the application.						
Of the above claim(s)							
☐ Claim(s)							
♥ Claim(s) = 5 -1 4							
☐ Claim(s)							
☐ Claim(s)							
Application Papers requirement.							
☐ See the attached Notice of Draftsperson's Patent Drawing F	Review, PTO-948.						
☐ The proposed drawing correction, filed on	☐ The proposed drawing correction, filed on is ☐ approved ☐ disapproved.						
☐ The drawing(s) filed on is/are objected	☐ The drawing(s) filed on is/are objected to by the Examiner.						
The specification is objected to by the Examiner.							
☐ The oath or declaration is objected to by the Examiner.							
Pri rity under 35 U.S.C. § 119 (a)-(d)							
Acknowledgment is made of a claim for foreign priority under All Some* None of the CERTIFIED copies of the received.	priority documents ha	ave been					
 received in Application No. (Series Code/Serial Number) received in this national stage application from the International 							
*Certified copies not received:	·	· · · ·					
Attachment(s)		•					
☐ Information Disclosure Statement(s), PTO-1449, Paper No(s	s) □ tr	nten/jew Summan/ PTO-413					
™Notic of Reference(s) Cited, PTO-892		□ Notice of Informal Patent Application, PTO-152					
☐ Notice of Draftsperson's Patent Drawing Revi w, PTO-948	Other						
Office Acti n Summary							

Application/Control Number: 09/499,207

Art Unit: 1742

DETAILED ACTION

Specification

1. The abstract of the disclosure is objected to because the instant abstract is not limited to single paragraph. Furthermore, the instant abstract has more than 250 words. Correction is required. See MPEP § 608.01(b).

Claim Rejections - 35 USC § 112

2. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

The following is a quotation of 37 CFR 1.71(a)-(c):

- (a) The specification must include a written description of the invention or discovery and of the manner and process of making and using the same, and is required to be in such full, clear, concise, and exact terms as to enable any person skilled in the art or science to which the invention or discovery appertains, or with which it is most nearly connected, to make and use the same.
- (b) The specification must set forth the precise invention for which a patent is solicited, in such manner as to distinguish it from other inventions and from what is old. It must describe completely a specific embodiment of the process, machine, manufacture, composition of matter or improvement invented, and must explain the mode of operation or principle whenever applicable. The best mode contemplated by the inventor of carrying out his invention must be set forth.
- © In the case of an improvement, the specification must particularly point out the part or parts of the process, machine, manufacture, or composition of matter to which the improvement relates, and the description should be confined to the specific improvement and to such parts as necessarily cooperate with it or as may be necessary to a complete understanding or description of it.
- 3. The specification is objected to under 37 CFR 1.71 because the instant specification fails to provide an adequate written description of the invention and fails to provide an enabling

Application/Control Number: 09/499,207 -Page 3-

Art Unit: 1742

disclosure.

- 4. It is unclear how the instant Cu base microalloy has an electrical conductivity higher than 101.5% IACS?
- 5. Claim 14 is rejected under 35 U.S.C. 112, first paragraph, for the reason set forth in items 3 and 4 above.
- 6. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

- 7. Claims 9-14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 8. Claim 9 is indefinite because in step (a), the elements S, Sb, Bi, Sn, Zn, Ni, Fe, and Ag have two different ranges. Moreover, it is unclear in step (c) that what step has decreased the softening temperature, the annealing and the recrystallization temperature of the microalloy to values lower than 200 °C?

Claim Rejections - 35 USC § 103

- 9. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 10. The factual inquiries set forth in *Graham v. John Deere Co.*, 148 USPQ 459, that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are

-Page 4-

Application/Control Number: 09/499,207

Art Unit: 1742

summarized as follows:

- A. Determining the scope and contents of the prior art.
- B. Ascertaining the differences between the prior art and the claims at issue.
- C. Resolving the level of ordinary skill in the pertinent art.
- D. Considering objective evidence present in the application indicating obviousness or unobviousness.
- 11. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).
- Claims 1-4 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over JP 10195562, JP 09078162, JP 62047443, or JP 61133351. (See the abstracts of cited references).
- 13. The cited references disclose the claimed Cu base alloy compositions and casting step.
- 14. Claims 9-13 are rejected under 35 U.S.C. § 103 as being unpatentable over JP 10195562, JP 09078162, JP 62047443, or JP 61133351.
- The cited references disclose the features substantially as claimed. The disclosed features include the claimed Cu base alloy compositions and casting step (see their abstracts). The difference between the reference(s) and the claims are as follows: the cited references do not disclose preheating the Cu base alloy before mixing with Pb. But, the examiner takes official notice that preheating certain alloying ingredients before melting is conventional step in order to reduce thermal shock and moisture of the ingredients. Therefore, the preheating ingredients step

Application/Control Number: 09/499,207

Art Unit: 1742

before melting is contemplated within ordinary skill artisan in order to reduce thermal shock and moisture of the ingredients.

Conclusion

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See MPEP § 2163.06 (a) and 37 C.F.R. § 1.119.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (703) 308-2542. The examiner can normally be reached Monday to Friday from 6:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy King, can be reached on (703)-308-1146.

The facsimile phone number for "After Final Official Papers" is (703) 305-3599, "All Other Official Papers" is (703) 305-7718, and "Unofficial Papers" is (703) 305-7719. When filing a FAX in Technology Center 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are not for entry into the file of the application. This will expedite processing of your papers.

SIKYIN IP PRIMARY EXAMINER ART UNIT 1742

S. Ip October 1, 2000